

**Phase 2 Sampling and Quality Assurance Project Plan
Revision 0
Addendum A**

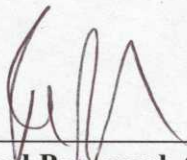
**For
Libby, Montana**

Environmental Monitoring for Asbestos

*Evaluation of Exposure to
Airborne Asbestos Fibers
During Routine and Special Activities*




On Scene Coordinator:

 3/13/01

Paul Peronard, OSC
8EPR-PAER

Science Support Coordinator:

 3/14/01

Chris Weis, PhD, DABT
8EPR-PS

ADDENDUM A
LIST OF MODIFICATIONS TO
PHASE 2 SAMPLING AND QUALITY ASSURANCE PROJECT PLAN (REV 0)
FOR LIBBY, MONTANA

This document summarizes a number of clarifications and revisions to the Phase 2 Sampling and Quality Assurance Project Plan (Rev 0) for Libby, Montana, and its associated attachments. These changes and clarifications have been developed during the initial phases of implementing the Phase 2 Project Plan in Libby, and apply mainly to activities associated with Scenario 1 (routine household activities) and Scenario 2 (active cleaning). The changes listed in this addendum will be incorporated into Revision 1 of the Project Plan at an appropriate time in the future. In the interim, all activities performed under Revision 0 of the plan will conform to the changes described herein.

Page	Section	Change/Clarification
6, 12, 18	Scenario 1	Delete the text which states that residents may engage in all normal activities EXCEPT CLEANING. If cleaning is a part of the normal daily activities, these activities may be performed.
12	Scenario 1	Delete text stating that when feasible, all pumps should be set up the night before. Rather, all pumps should be set up and calibrated immediately before use, as indicated in SOP EPA-LIBBY-01.
12	Scenario 2	Record info on make, model and general type (upright, canister, HEPA filter, etc) of vacuum cleaner used for Scenario 2 in field log book
12, 13, 15	Scenario 1 Scenario 2 Scenario 3	If the residence has multiple floors or levels that are used for regular living activities, one stationary air sample will be collected on each floor/ level. Levels/floors that are not used as a regular living space will not be sampled.
14	Scenario 2	Following completion of the active cleaning activities by EPA staff, the home will be prepared for re-occupancy by a thorough general cleaning (wet cloth wipe down, HEPA vacuuming as needed), prior to collection of the air clearance sample(s). The clearance sample(s) will be collected after allowing the house to "settle" overnight.

14	Scenario 2	<p>All air samples from Scenario 2 will be sent to the on-site field laboratory for quick turn-around by AHERA and by ISO 10312 (10 grids). A property will be considered suitable for re-occupancy if the following are true: 1) the post-activity clearance sample is lower than the AHERA standard; 2) the post-activity clearance sample is not higher(a) than the pre-activity sample, both by AHERA and by ISO 10312. If one or more of these tests are not true, the home will undergo a second cleaning and the same tests will be performed. If one or more of the tests still fail, the matter will be referred to the EPA OSC for resolution. Note that all samples will also be sent off-site for more thorough quantification by TEM and PCM.</p> <p><i>(a) Statistical test for "not higher" is defined by the Poisson confidence intervals.</i></p>
18	B1b	For homes involved in Scenarios 1 and 2, data on the rate and direction of airflow (as indicated by use of a smoke generator) will be collected in the interval between Scenario 1 and Scenario 2.
19 SOP-EPA-Libby-01	B2	All cellulose acetate filters used during this project will have 0.8 um pores, both for personal air and stationary air samplers.
22	B3	Sample labels will be tracked in a logbook maintained by the field data manager.
26	B5 (Laboratory-based QC)	All samples collected in a week will be shipped at the end of the week, and each shipment will be considered an analytical batch. The laboratory must perform laboratory-based QC samples for each analytical batch at the required frequency indicated in the QAPP.
27	B5 (Field-based QC)	A total of 2 field blanks for air will be collected at each residence per scenario (1, 2, 3, or 4). In addition, 2 field blanks for dust will be collected at each residence per scenario. For both air and dust, one of the two field blanks will be randomly selected for analysis along with the field sample. Mark "Archive" on the COC for the second field blank. While the second field blank will travel to the laboratory with the other samples, it will be archived and may be analyzed at a later date at the discretion of the SCC.
Appendix B	SOP EPA-LIBBY-01	See Revision 1 (includes additional detail on calibration)